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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/767,885	01/24/2001	Kimio Inone	202182US3	2548
22850 75	590 04/14/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			SORKIN, DAVID L	
1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			1723	
			DATE MAILED: 04/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/767,885	INOUE, KIMIO				
Office Action Summary	Examiner .	Art Unit				
	David L. Sorkin	1723				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>08 March 2005</u> .						
2a)⊠ This action is FINAL . 2b)□ This	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 10-13 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 10-13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Example 11.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 08 March 2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

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DETAILED ACTION

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Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 10-13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. These claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention. There is no support in the application as originally filed for the new limitation "a screw set rotatably supported only at one end" recited in independent claim 10. The only statement concerning how the screw sets are support is at page 7, lines 26-27, "a barrel 3 supporting the screw sets 1 and 1 in a rotatable manner". Applicant argues that that the word "extruder" only applies to structures having screws which are support at only one end; however, such is not the case. The examiner cites the following references to show that extruders can have screws which are support at least at both ends: US patent Nos. 3,137,035; 5,750,158; 6,179,459; and 6,382,826. US 2,351,493 is also cited to show that an "extruder" need not have a material contacting "screw" at all, but may for example have a piston instead. Applicant cites the Encyclopedia of Chemical Technology, but this reference does not provide a definition for the term extruder and instead gives an example of a typical extruder. The encyclopedia does not discuss how the screw of example extruder is supported.

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Turning back to what the instant application as originally filed does or does not disclose, the application does not expressly state to what degree, if any, portions of the screw segments, rotor segments and kneading segments are directly supported by the inner surface of the barrel. However, it does state (page 5, lines 8-12) that screw segments have particularly close clearances with the inner surface of the barrel so as to scrape off material. As explained in Hendry (US 3,137,035) col. 2 lines 53-69, providing a screw segment with a particularly close clearance is a manner in which an extruder screw is supported in the art and is considered a bearing in the art. The instant application depicts such screw segments (11) having close clearances at both ends of the screw set as seen in Fig. 1A. On skilled in the art would not rule out that these perform their bearing support function known in the art from, for example, Hendry (US 3,137,035). Therefore, one skilled in the art would not consider that instant application as originally filed describes (expressly, implicitly or inherently) "a screw set rotatably supported only at one end".

Relationship to Prior Art

3. The claims are not rejected under section 102 or 103. The prior art does not disclose "a screw set rotatably supported only at one end" in combination with the remaining limitations of claim 10. It is noted; however, that US 5,947,593 otherwise discloses the claimed invention as explained in the previous office action.

Response to Arguments

4. The examiner agrees that the previously relied upon references does not disclose "a screw set rotatably supported only at one end" in combination with the

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remaining limitations of independent claim 10. However, the examiner does not consider that the instant application as originally filed provides a description, within the meaning of section 112, first paragraph, of such an invention. The examiner has cited numerous references to show unequivocally that an extruder screw may be supported more than just at one end.

Conclusion

5. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Sorkin whose telephone number is 571-272-1148. The examiner can normally be reached on 9:00 -5:30 Mon.-Fri..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David L. Sorkin
Primary Examiner
Art Unit 1723

DLS